

Attachment 3 - Work Plan

Goals and Objectives:

The goal of this proposal is to, consistent with the WIWRP Regional objectives, address the pressing stormwater and flood management needs of one of the region's most disadvantaged communities, and generate additional water supply. The proposal consists of a single project that will address two of the WIWRP Regional Objectives. WIWRP Regional Objective #4, Flood Management calls for projects that will, "Minimize risk of loss of life, infrastructure, and resources caused by significant storm events by utilizing uncontrolled flow beneficially." Meanwhile, Regional Objective #7, Storm Water Management seeks projects that will, "Capture stormwater for higher beneficial use whenever practicable."

Specific project objectives include:

1. To prevent flooding from the California Avenue Storm Drain Basin (Basin)
2. To capture water for reuse for agricultural irrigation.
3. To reduce use of the City of San Joaquin (City) resources needed when the Basin reaches overflow stage.
4. To reduce energy consumption.

Purpose and Need: The project is needed to prevent flooding due to lack of capacity of the land-locked California Avenue Storm Drain Basin (the Basin). The project will construct a lift station to relieve the Basin of excess stormwater and will then pump the water to an adjacent James Irrigation District (JID) Canal.

The Basin is immediately adjacent to 84 multi-family units of affordable housing, 20 units of senior housing, and approximately 46 single-family homes on surrounding streets. The Basin serves more than 20% of the dwelling units in the City. Presently, when there are heavy back-to-back storms, as there have been in the last year, the City is faced with either having the Basin overflow into residential property and City streets—with resulting damage, or take emergency action to reduce the water in the Basin. To reduce the water level, the City staff will use City-owned, undersized pumps (3 inch) or rent a pump (6 inch) and over a period of many hours and days operate the pump to divert the Basin's water into the nearby JID Ditch. With each incident, the City uses precious resources including on-going monitoring of Basin levels before and during storm events, funds to rent equipment, and excess energy resulting in high energy bills. The proposed project will prevent the potential for flood damage to the residences and City streets adjacent to the Basin, and will remove the need for emergency City action including bagging and distribution of approximately 120 sandbags last year (2010) to residents to prevent flooding.

Project List:**California Avenue Storm Drain Lift Station**

This project is the second phase of a larger project that aims address capacity issues with the Basin. The first phase was to deepen the Basin, which has since reached capacity. The grant monies, along with the local government match, will be used to construct a storm drain lift station and outfall relief line. This new lift station will specifically remedy overflows during heavy storms and prevent excess water from overflowing onto nearby residential property and City streets. In addition, the expanded capacity of the Basin will allow the City to retain water, which can then be pumped into the adjacent JID Ditch and discharged downstream for beneficial crop irrigation usage.

Currently, the City is working with the JID to amend an existing memorandum of understanding that addresses the handling of storm water that may include additional storm water or a collaborative banking system. In exchange, the City is requesting financial assistance for the purchase of a back-up generator that will serve the new lift station site. This partnership will not only help the City meet the required 50% match of funds, but it will ensure that stored water is used in a beneficial way that supports local agriculture.

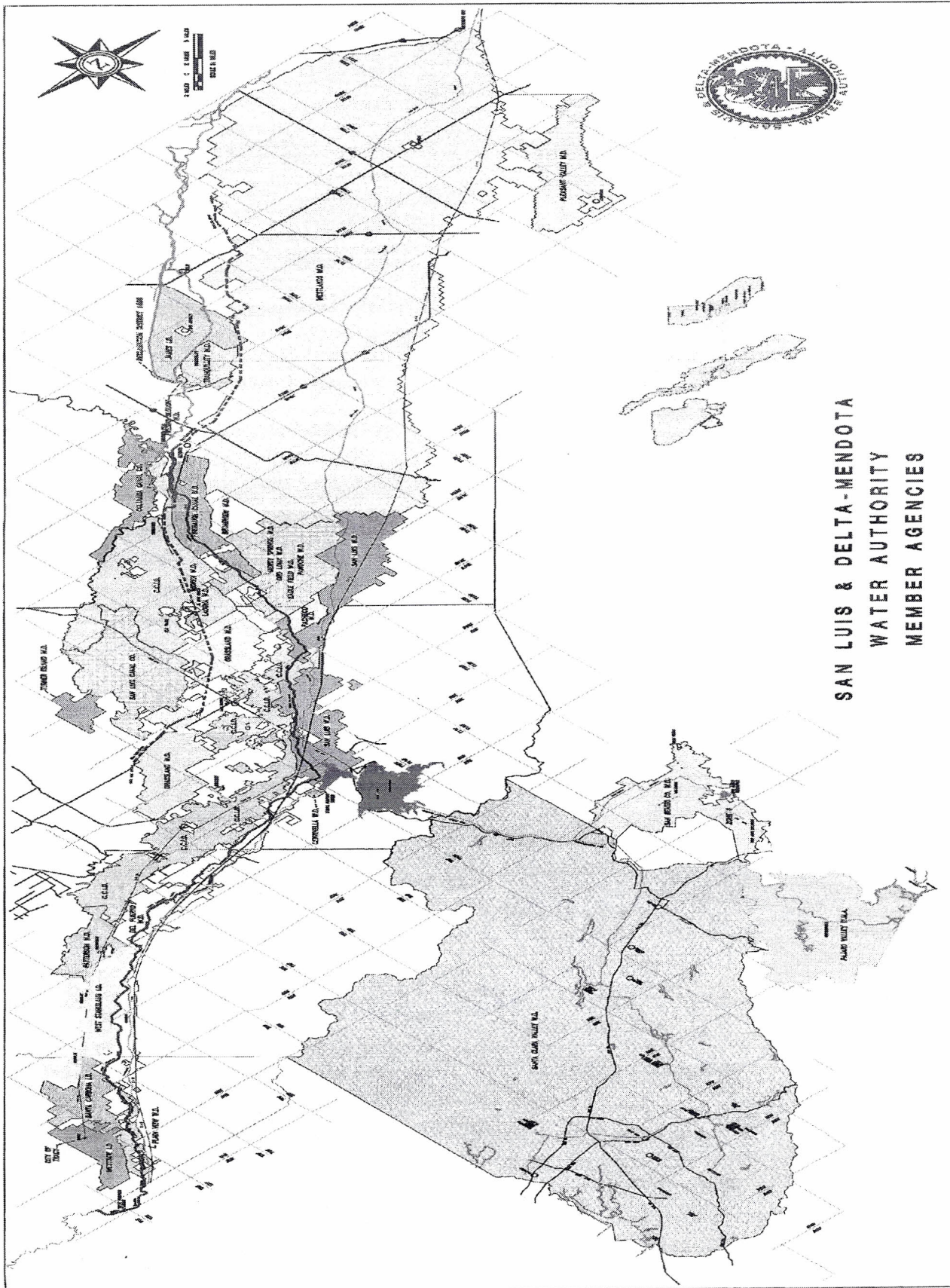
Integrated Elements of Projects: None, this is a stand-alone project.

Regional Map:

Below is a regional map of the WIWRP. The City of San Joaquin is located near the center of the James I.D. which appears in purple in the upper left portion of the map.



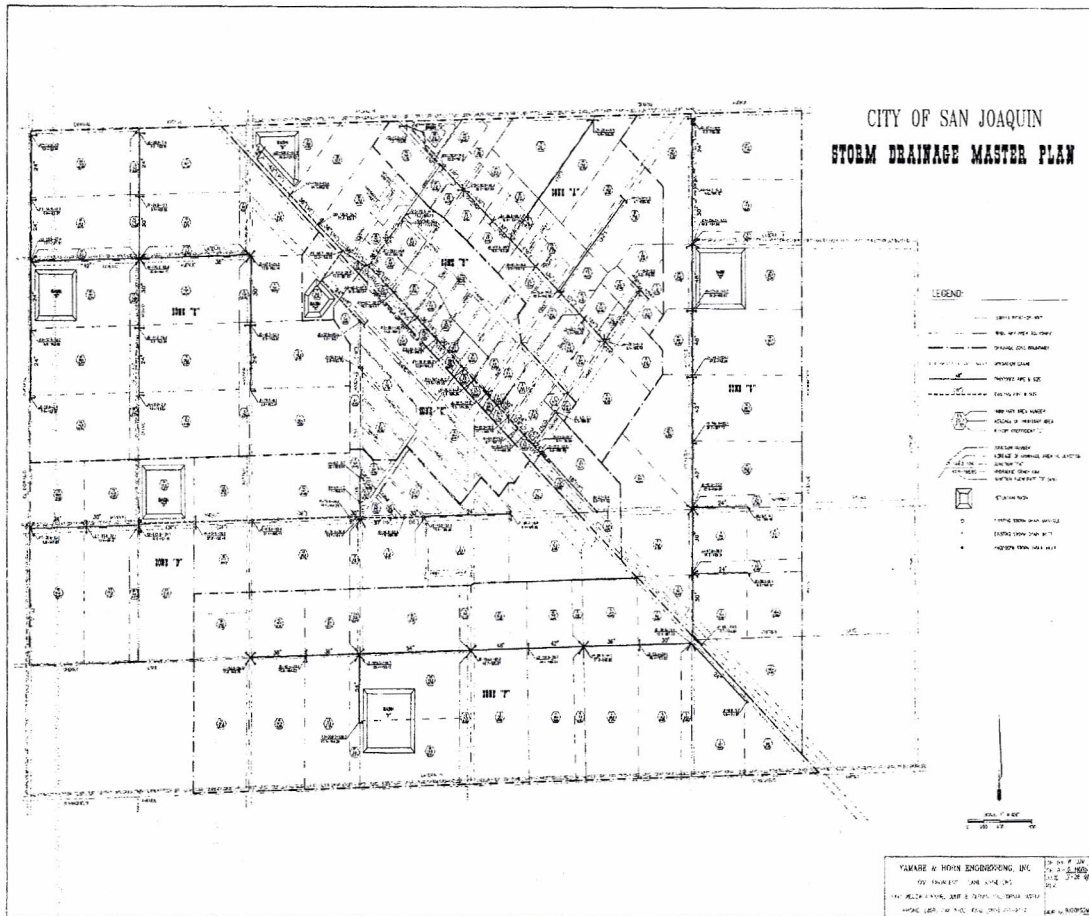
**SAN LUIS & DELTA-MENDOTA
WATER AUTHORITY
MEMBER AGENCIES**



Completed Work: Planning on the project is 50% complete

Existing Data and Studies: City of San Joaquin Storm Drain Master Plan

Project Map:



Project Timing and Phasing: Not Applicable

Project Tasks

Budget Category (a): Direct Project Administration Costs

Task 1 – Administration:

- *Summary* – To ensure that all City and grant administration requirements are met during the project, including liaison with grant personnel, fiscal and project records, reports and supporting documentation, labor standards compliance, preparation of invoices and supporting documentation, coordination with partner agencies/organizations, and grant closeout. (See more specifics below.)
- *Status* – Not started
- *Deliverables* – Invoices and other documentation as required

Task 2 – Reporting:

- *Summary* - Preparation and submission of quarterly, annual and final reports as specified in the Grant Agreement.
- *Status* – Not started
- *Deliverables* – Progress reports at intervals specified in Grant Agreement.

Budget Category (c): Planning/Design/Engineering/Environmental Documentation

Task 3 – Environmental Documentation:

- *Summary* - Preparation of project CEQA/NEPA environmental review and certification. The Project is located on land already developed for urban storm drainage and is fairly small in scope. It is anticipated that the environmental review will result in a Negative Declaration (ND) with a Finding of No Significant Impact (FONSI).
- *Status* – Not started.
- *Deliverables* – Approved and adopted CEQA/NEPA certification.

Task 4 – Final Design:

- *Summary* – Preparation of 90% and Final Construction Contract Documents including plans, specifications and Engineer's Estimate (PS&E) for the construction work.
- *Status* – Not started.
- *Deliverables* – 90% and Final PS&E packages.

Budget Category (d): Construction/Implementation

Task 5 – Construction Contracting:

- *Summary* – To conduct a competitive bid process that includes: Advertising the project, reviewing and evaluating the bids, providing the City Council with a Bid Award recommendation and execution of the Construction Contract. All necessary state/federal regulatory requirements will be incorporated in the bid and contract documents.
- *Status* – Not started
- *Deliverables* – Advertisement for Bids, addenda during bidding, bid award recommendation, executed contract.

Task 6 – Construction:

Summary – The project will construct a storm drain lift station and outfall relief line at the California Avenue Storm Drain Lift Station. The project will include the construction of a concrete wet well, installation of piping, installation of electrical facilities, installation of an aboveground pump station, and other site work.

Budget Category (f): Construction Administration

Task 7 – Construction Administration:

Summary – Project construction inspection, labor compliance enforcement, review and processing of progress payment requests and change orders, preparation of final inspection punch list, final acceptance recommendation, and contract close-out procedures.